Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per. \_\_\_\_\_\_\_\_\_\_ LE.5 \_\_\_\_\_

**Demonstration of Understanding-Linear Functions Study Guide** IF.6 \_\_\_\_\_

REI.10 \_\_\_\_\_

CED. 2 \_\_\_\_\_

*This study guide is to be completed during class!* ***This is a graded assignment*** *that will be assessed on Monday. Use your resources! Table groups, the textbook and online.*

(LE.5)

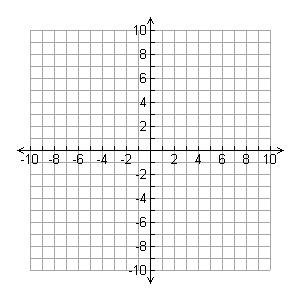
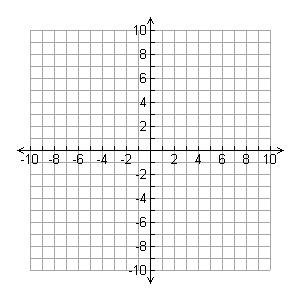
1. Describe why this is a linear pattern. (Use words like rate of change, term zero, etc.)

2. In 1991, the Federal minimum wage was $4.25 per hour. If the salary before taxes can be modeled as , then how much money would and employee earn (before taxes) after working three, eight hour work days?

(IF.6) Use the slope formula to calculate the slope given two points.

3. 4.

(IF.6) Determine the slope of the line by showing the rise over run with stairs on the graph and reducing the fraction.

5. 6.

(IF.6) Identify the slope in the following equations.

7. m=\_\_\_\_\_\_

8. m=\_\_\_\_\_\_

9. m=\_\_\_\_\_\_

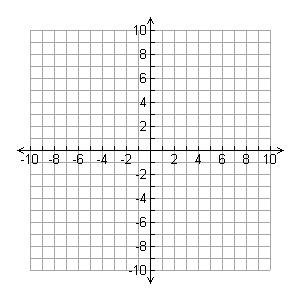
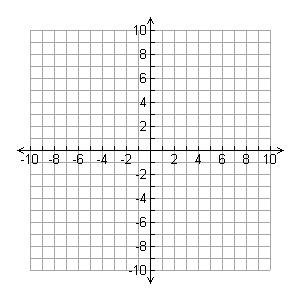
10. m=\_\_\_\_\_\_

(REI.11) Graph the following equations by making an equation-table of values and plotting the points.

11. 12.

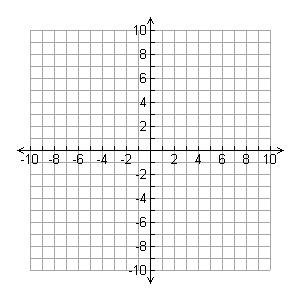
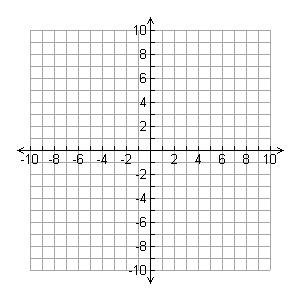
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(REI.11) Graph the equation by finding the x & y-intercepts.

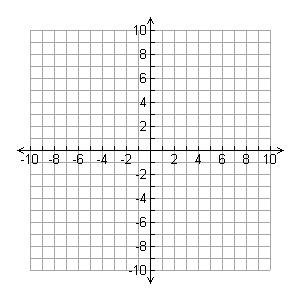
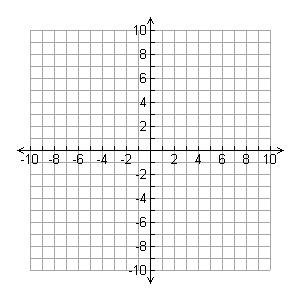
13. 14.



(REI. 11) Identify *m* and *b* and graph the equation.

15. 17.

m= \_\_\_\_\_ b= ­­­­­\_\_\_\_\_ m= \_\_\_\_\_ b= ­­­­­\_\_\_\_\_



(CED.2) Write the slope-intercept equation, given the following information.

18. 19. 20. 21.

(CED.2) Write the point-slope equation given the following information.

22. 23.

(CED.2) Write the equation in slope-intercept form.

24. 25.

(CED.2) Write the slope-intercept equation of the line passing through the point and parallel to the equation.

26. 27.